



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H140979

Mode: Highway

Status: Submitted

NC-242

From/Cross Street: US 301

Specific Improvement Type: 1 - Widen Existing Roadway

To: I-40

Project Category: Regional Impact

Length: 2.64

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$23,603,000

Description:

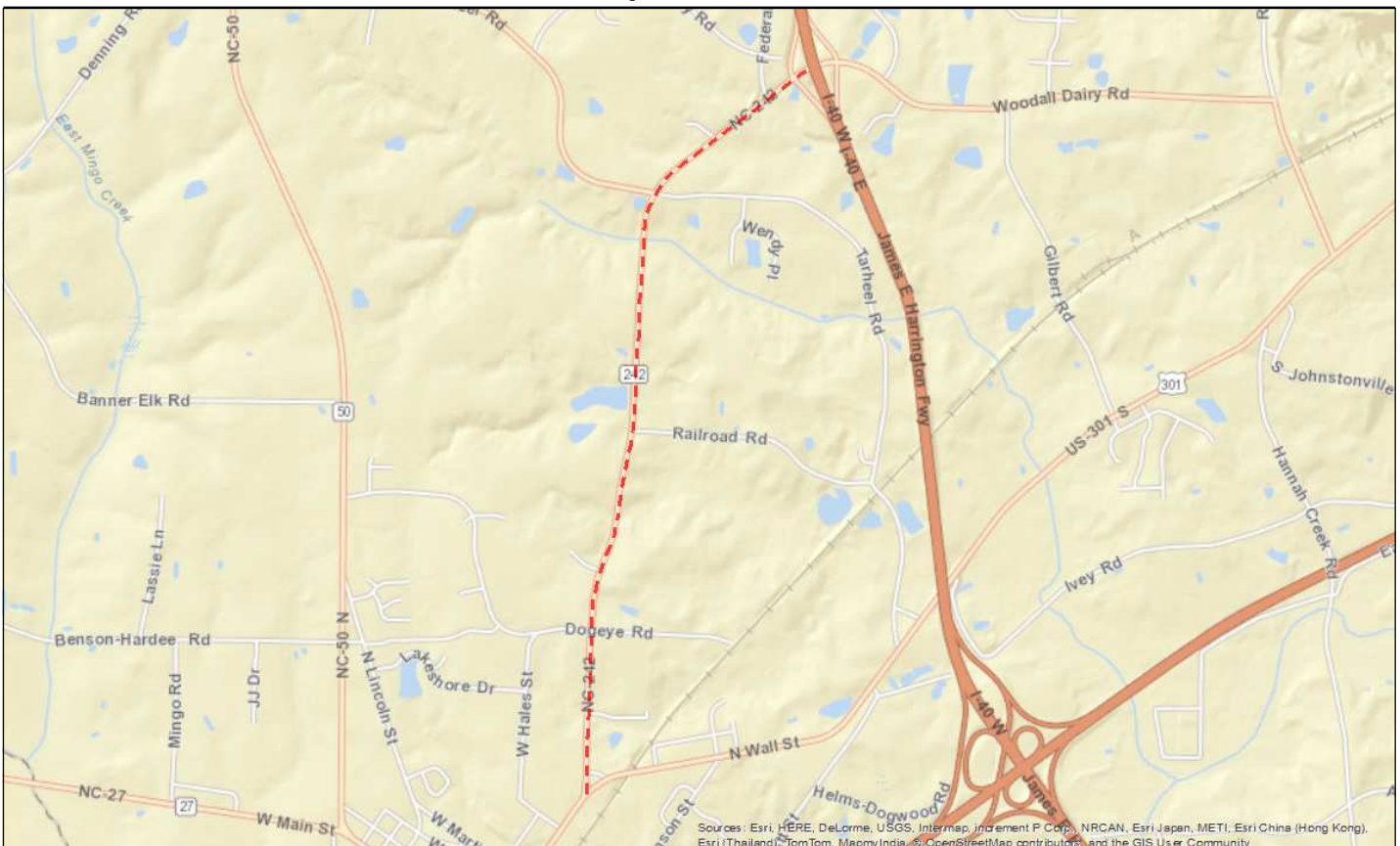
Widen to 4 lane highway with median and sidewalks (4E Section). Provide a four lane divided cross section for NC 242 North from its junction with US 301 Hwy to its intersection with Interstate 40. The addition of a median will allow for better controlled access which will provide more mobility as the corridor develops in the near future. Recent development and proposed new development in the near future means an increase in AADT thereby creating the need for controlled access for safer mobility.

Division(s): Division 4

County(s): JOHNSTON

MPOS(s)/RPO(s): Upper Coastal Plain RPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 52.54

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (15%) 22.36	Percent: 15% Points: 100	Percent: 15% Points: 100
Safety (15%) 61.21		
Lane Width (10%) 50.00		
[Paved] Shoulder Width (10%) 50.00		
[Travel Time] Benefit/Cost (20%) 0.00		
Totals: Weight: 70% Weighted Score: 22.54		

Division Needs Total Score: 18.36

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (10%) 22.36	Percent: 25% Points: 0	Percent: 25% Points: 0
[Travel Time] Benefit/Cost (10%) 0.00		
Safety (10%) 61.21		
Lane Width (10%) 50.00		
[Paved] Shoulder Width (10%) 50.00		
Totals: Weight: 50% Weighted Score: 18.36		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	37
Length (miles):	2.64
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Major Collector
Terrain Type:	Rolling
Lane Width:	10
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	No
Volume (AADT):	5254.02
Capacity:	15558.11
Volume/Capacity Ratio:	0.34
% Autos:	95%
% Trucks:	5%
Truck Volume:	237.5
Crash Density:	65.4
Crash Severity:	65.4
Critical Crash Rate:	52.85
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	22
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	76
Actual Congested Speed:	46.43
Travel Time Index:	0.75

Project Benefits

Project Cross-Section:	4B - 4 Lane Divided (23' Raised Median) with Paved Shoulders and Sidewalks
Speed Limit:	37
Length (miles):	2.64
Facility Type:	Superstreet
Access Control:	None
Functional Classification:	Major Collector
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	2
Travel Time Savings for 30 Years (Total):	-427674.93
Travel Time Savings for 30 Years (Autos):	-408342.84
Travel Time Savings for 30 Years (Trucks):	-19332.09
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	Yes
CTP/LRTP Name:	Johnston County CTP
CTP/LRTP Completion Year:	2013
Submitted by:	Upper Coastal Plain RPO

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 4	100%	100	0
	0%	0	0
	0%	0	0
TOTAL Division Points		100	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Upper Coastal Plain RPO	100%	100	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	0

Project Cost and Source

Construction Cost:	\$20,230,000	Cost Estimation Tool
Right-of-Way Cost:	\$3,012,000	Cost Estimation Tool
Utilities Cost:	\$361,000	Cost Estimation Tool
Total Project Cost:	\$23,603,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$23,603,000	